

Docket No.: 042390.P5965

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Hacking, et al.

Application No.: 09/122,349

Filed: July 24, 1998

For: Method and Apparatus for Performing  
Cache Segment Flush and Cache  
Segment Invalidation Operations

Examiner: Denise Tran

Art Group: 2186

AMENDMENTAssistant Commissioner for Patents  
Washington, DC 20231-9998

Sir:

Please amend the above-identified Application as follows:

IN THE CLAIMS

Following is a complete set of claims as amended with this Response. This complete set of claims excludes cancelled claims 3 and 13-37 and includes new claims 42-64.

1. (Amended) A computer system comprising:  
a cache memory having a plurality of cache lines each of which stores data;  
a storage area to store a data operand; and  
an execution unit coupled to said storage area to operate on data elements in said data operand containing a portion of a starting address to invalidate data in a predetermined portion of the plurality of cache lines in response to receiving a single instruction of a processor instruction set.
2. The computer system of Claim 1, wherein the data operand is a register location.

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App. No. 09/122,349

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WWS/crr  
Filed: 7/24/98

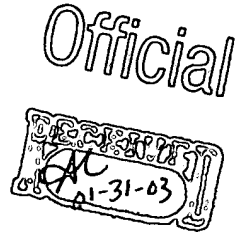
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## FACSIMILE COVER SHEET



Deliver to: Tran, D., USPTO Art Group: 2186  
 Facsimile No.: 703-746-7239 Date: January 31, 2003  
 From: William W. Schaal, Reg. No. 39,018  
 Our Docket No.: 42390P5965 Number of pages 22 including this sheet.  
 Application No.: 09/122,349 Filing Date: 7/24/1998  
 Docket Due Date(s): \_\_\_\_\_

Enclosed are the following documents:

|  |   |
|--|---|
| <input checked="" type="checkbox"/> Amendment: _____                           | <input type="checkbox"/> Issue Fee Transmittal                                    |
| <input type="checkbox"/> Appeal Brief (in triplicate) ( _____ pgs)             | <input type="checkbox"/> Notice of Appeal   |
| <input type="checkbox"/> Application: _____<br>( _____ pgs) w/cover & abstract | <input type="checkbox"/> Petition for: _____                                      |
| <input type="checkbox"/> Assignment & Cover Sheet ( _____ pgs)                 | <input type="checkbox"/> Request for Continued Examination (RCE)                  |
| <input type="checkbox"/> Certificate of _____                                  | <input type="checkbox"/> Reply Brief ( _____ pgs)                                 |
| <input type="checkbox"/> Continued Prosecution Application (CPA)               | <input type="checkbox"/> Request & Certification Under 35 USC 122(b)(2)(B)(i)     |
| <input type="checkbox"/> Declaration & POA ( _____ pgs)                        | <input type="checkbox"/> Request to Rescind Previous Nonpublication Request       |
| <input type="checkbox"/> Drawings: _____ sheets, _____ figures                 | <input type="checkbox"/> Response to Notice of Missing Parts & Formalities Letter |
| <input type="checkbox"/> Extension of Time: _____                              | <input type="checkbox"/> Response to Written Opinion ( _____ pgs)                 |
| <input checked="" type="checkbox"/> Fee Transmittal (in duplicate)             | <input type="checkbox"/> Terminal Disclaimer                                      |
| <input type="checkbox"/> IDS & PTO/SB/08 ( _____ pgs)                          | <input type="checkbox"/> Transmittal of Publication Fee Due                       |
| <input type="checkbox"/> Other _____   | <input checked="" type="checkbox"/> Transmittal Letter                            |

### CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8A)

I hereby certify that this correspondence is being transmitted by facsimile to the Patent and Trademark Office on 1/31/2003.

Corrin R. Reynolds 01/31/2003  
 Corrin R. Reynolds Date

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PTO/SB/17 (01-03)

Approved for use through 04/30/2003. OMB 0651-0032  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**FEE TRANSMITTAL  
for FY 2003**

Effective 01/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27.

TOTAL AMOUNT OF PAYMENT (\$) 0.00

**Complete if Known**

|                      |               |
|----------------------|---------------|
| Application Number   | 09/122,349    |
| Filing Date          | July 24, 1998 |
| First Named Inventor | Lance Hacking |
| Examiner Name        | Tran, D.      |
| Group/Art Unit       | 2186          |
| Attorney Docket No.  | 42390P5965    |

**METHOD OF PAYMENT (check one)**

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None  
☐ Deposit Account

Deposit  
Account  
Number

02-2666

Deposit  
Account  
Name

Blakely, Sokoloff, Taylor &amp; Zafman LLP

The Commissioner is authorized to: (check all that apply)

- ☐ Charge fee(s) indicated below ☐ Credit any overpayments  
☐ Charge any additional fee(s) required under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20.  
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account

**FEE CALCULATION****1. BASIC FILING FEE**

| Large Entity |          | Small Entity |          | Fee Description        | Fee Paid |
|--------------|----------|--------------|----------|------------------------|----------|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |                        |          |
| 1001         | 750      | 2001         | 375      | Utility filing fee     |          |
| 1002         | 330      | 2002         | 165      | Design filing fee      |          |
| 1003         | 620      | 2003         | 280      | Plant filing fee       |          |
| 1004         | 750      | 2004         | 375      | Reissue filing fee     |          |
| 1005         | 160      | 2005         | 80       | Provisional filing fee |          |
| SUBTOTAL (1) |          |              |          | (\$)                   |          |

**2. EXTRA CLAIM FEES**

Total Claims 39 - 40\* = 0 X 18.00 = \$0.00  
 Independent Claims 9 - 9\* = 0 X 84.00 = \$0.00  
 Multiple Dependent

| Large Entity |          | Small Entity |          | Fee Description   | Fee Paid |
|--------------|----------|--------------|----------|---|----------|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |   |          |
| 1202         | 18       | 2202         | 9        | Claims in excess of 20                                    |          |
| 1201         | 84       | 2201         | 42       | Independent claims in excess of 3                         |          |
| 1203         | 280      | 2203         | 140      | Multiple Dependent claim, if not paid                     |          |
| 1204         | 84       | 2204         | 42       | **Reissue independent claims over original patent         |          |
| 1205         | 18       | 2205         | 9        | **Reissue claims in excess of 20 and over original patent |          |
| SUBTOTAL (2) |          |              |          | (\$)  | 0.00     |

\*or number previously paid, if greater, For Reissues, see below

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

| Large Entity |          | Small Entity |          | Fee Description  | Fee Paid |
|--------------|----------|--------------|----------|--|----------|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |  |          |
| 1051         | 130      | 2051         | 65       | Surcharge - late filing fee or oath  |          |
| 1052         | 50       | 2052         | 25       | Surcharge - late provisional filing fee or cover sheet                     |          |
| 2053         | 130      | 2053         | 130      | Non-English specification  |          |
| 1812         | 2,520    | 1812         | 2,520    | For filing a request for ex parte reexamination                            |          |
| 1804         | 920*     | 1804         | 920*     | Requesting publication of SIR prior to Examiner action                     |          |
| 1805         | 1,840*   | 1805         | 1,840*   | Requesting publication of SIR after Examiner action                        |          |
| 1251         | 110      | 2251         | 55       | Extension for reply within first month                                     |          |
| 1252         | 410      | 2252         | 205      | Extension for reply within second month                                    |          |
| 1253         | 930      | 2253         | 465      | Extension for reply within third month                                     |          |
| 1254         | 1,450    | 2254         | 725      | Extension for reply within fourth month                                    |          |
| 1255         | 1,970    | 2255         | 985      | Extension for reply within fifth month                                     |          |
| 1404         | 320      | 2401         | 160      | Notice of Appeal   |          |
| 1402         | 320      | 2402         | 160      | Filing a brief in support of an appeal                                     |          |
| 1403         | 280      | 2403         | 140      | Request for oral hearing   |          |
| 1451         | 1,510    | 2451         | 1,510    | Petition to institute a public use proceeding                              |          |
| 1452         | 110      | 2452         | 55       | Petition to revive - unavoidable   |          |
| 1453         | 1,300    | 2453         | 650      | Petition to revive - unintentional   |          |
| 1501         | 1,300    | 2501         | 650      | Utility issue fee (or reissue)   |          |
| 1502         | 470      | 2502         | 235      | Design issue fee   |          |
| 1503         | 630      | 2503         | 315      | Plant issue fee  |          |
| 1480         | 130      | 2480         | 130      | Petitions to the Commissioner  |          |
| 1807         | 50       | 1807         | 50       | Processing fee under 37 CFR 1.17(q)  |          |
| 1806         | 180      | 1806         | 180      | Submission of Information Disclosure Stmt                                  |          |
| 8021         | 40       | 8021         | 40       | Recording each patent assignment per property (times number of properties) |          |
| 1809         | 750      | 1809         | 375      | Filing a submission after final rejection (37 CFR § 1.129(e))              |          |
| 1810         | 750      | 2810         | 375      | For each additional invention to be examined (37 CFR § 1.129(b))           |          |
| 1801         | 750      | 2801         | 375      | Request for Continued Examination (RCE)                                    |          |
| 1802         | 900      | 1802         | 900      | Request for expedited examination of a design application                  |          |

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$)

**SUBMITTED BY****Complete (if applicable)**

Name (Print/Type)

William W. Schaal

Registration No.  
(Attorney/Agent)

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Telephone

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Signature

Date

01/31/03

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application to the USPTO. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.